

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/US2004/024868

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61K39/09

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, Sequence Search, WPI Data, PAJ, BIOSIS, EMBASE

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE Geneseq [Online] 2 July 2002 (2002-07-02), "Streptococcus polypeptide SEQ ID NO 9188." XP002334315 retrieved from EBI accession no. GSN:ABP30006 Database accession no. ABP30006 the whole document	24-26
A	-& DATABASE EPO Proteins [Online] 2 February 2004 (2004-02-02), "Sequence 7466 from Patent W00234771." XP002334316 retrieved from EBI accession no. EPOP:CQ650509 Database accession no. CQ650509 the whole document -/--	3,10-17



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

### \* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
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- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

5 July 2005

Date of mailing of the international search report

28.10.05

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	-& WO 02/34771 A (CHIRON S.P.A; THE INSTITUTE FOR GENOMIC RESEARCH; TELFORD, JOHN; MASIG) 2 May 2002 (2002-05-02) claims 1-28 page 2, line 1 - page 10, line 16 -----	1-17, 21-27
X	DATABASE Geneseq [Online] 19 June 2003 (2003-06-19), "Protein encoded by Prokaryotic essential gene #31978." XP002334512 retrieved from EBI accession no. GSN:ABU46451 Database accession no. ABU46451 the whole document	24-26
X	-& WO 02/077183 A (ELITRA PHARMACEUTICALS, INC; WANG, LIANGSU; ZAMUDIO, CARLOS; MALONE, C) 3 October 2002 (2002-10-03) claim 25 -----	24-26
X	DATABASE Geneseq [Online] 2 December 2004 (2004-12-02), "S. pyogenes - hyperimmune system reactive antigen Spy0269." XP002334513 retrieved from EBI accession no. GSN:ADR83896 Database accession no. ADR83896 the whole document	24-26
E	-& WO 2004/078907 A (INTERCELL AG; MEINKE, ANDREAS; NAGY, ESZTER; WINKLER, BIRGIT; GELBMANN) 16 September 2004 (2004-09-16) claim 11 -----	24-26
A	FERRETTI J J ET AL: "Complete genome sequence of an M1 strain of Streptococcus pyogenes" PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA; NATIONAL ACADEMY OF SCIENCE. WASHINGTON, US, vol. 98, no. 8, 10 April 2001 (2001-04-10), pages 4658-4663, XP002168716 ISSN: 0027-8424 the whole document ----- -/--	1-27

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>OLIVE C ET AL: "Protection of mice from group A streptococcal infection by intranasal immunisation with a peptide vaccine that contains a conserved M protein B cell epitope and lacks a T cell autoepitope"</p> <p>VACCINE, BUTTERWORTH SCIENTIFIC. GUILDFORD, GB, vol. 20, no. 21-22, 21 June 2002 (2002-06-21), pages 2816-2825, XP004357806</p> <p>ISSN: 0264-410X</p> <p>the whole document</p> <p>-----</p>	1-27

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			MX PA03003690 A	05-05-2004
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